Claims

- 1. 34. (canceled)
- 35. (currently amended) An isolated nucleic acid comprising a transcriptional unit for an immunogenic flavivirus antigen, wherein the transcriptional unit directs a host cell, after being incorporated therein, to synthesize the immunogenic antigen, and wherein the transcriptional unit comprises a prM signal sequence and a Kozak-ribosomal binding sequence comprising GCCGCCGCC located at in a position -9 to -1 relative to a start codon that is effective for ribosome binding.
- 36. (previously presented) The nucleic acid of claim 35, wherein the flavivirus comprises yellow fever virus, dengue serotype 1 virus, dengue serotype 2 virus, dengue serotype 3 virus, dengue serotype 4 virus, St. Louis encephalitis virus, Japanese encephalitis virus, or a mixture of two or more thereof.
- 37. (previously presented) The nucleic acid of claim 35, wherein the antigen is a prM/M protein, an E protein, or both a prM/M protein and an E protein.
- 38. (previously presented) The nucleic acid of claim 37, wherein the antigen is both the prM/M protein and the E protein and wherein the host cell secretes subviral particles comprising the prM/M protein and the E protein.
 - 39. (previously presented) The nucleic acid of claim 35 which is DNA.
- 40. (previously presented) The nucleic acid of claim 35, wherein the transcriptional unit further comprises a control sequence disposed appropriately such that it operably controls synthesis of the antigen.
- 41. (previously presented) The nucleic acid of claim 40, wherein the control sequence is the cytomegalovirus immediate early promoter.

- 42. (previously presented) The nucleic acid of claim 35, wherein the transcriptional unit further comprises a poly-A terminator.
 - 43. (previously presented) A cell comprising the nucleic acid of claim 35.
- 44. (previously presented) The cell of claim 43, wherein the flavivirus comprises yellow fever virus, dengue serotype 1 virus, dengue serotype 2 virus, dengue serotype 3 virus, dengue serotype 4 virus, St. Louis encephalitis virus, Japanese encephalitis virus, or a mixture of two or more thereof.
- 45. (previously presented) The cell of claim 43, wherein the flavivirus antigen is a prM/M protein, an E protein, or both a prM/M protein and an E protein.
- 46. (previously presented) The cell of claim 45, wherein the antigen is both the prM/M protein and the E protein and wherein the cell secretes subviral particles comprising the prM/M protein and E protein.
- 47. (previously presented) A composition comprising the nucleic acid of claim 35 in a pharmaceutically acceptable carrier.
- 48. (previously presented) The composition of claim 47, wherein the flavivirus comprises yellow fever virus, dengue serotype 1 virus, dengue serotype 2 virus, dengue serotype 3 virus, dengue serotype 4 virus, St. Louis encephalitis virus, Japanese encephalitis virus, or a mixture of two or more thereof.
- 49. (previously presented) The composition of claim 47, wherein the antigen is a prM/M protein, an E protein, or both a prM/M protein and an E protein.

- 50. (previously presented) The composition of claim 49, wherein the antigen is both the prM/M protein and the E protein and wherein the cell secretes subviral particles comprising the prM/M protein and the E protein.
- 51. (previously presented) The composition of claim 47, wherein the nucleic acid is DNA.
- 52. (previously presented) The composition of claim 47, wherein the transcriptional unit further comprises a control sequence disposed appropriately such that it operably controls synthesis of the antigen.
- 53. (previously presented) The composition of claim 52, wherein the control sequence is the cytomegalovirus immediate early promoter.
- 54. (previously presented) The composition of claim 47, wherein the transcriptional unit further comprises a poly-A terminator.
 - 55 68 (canceled)
- 69. (currently amended) The nucleic acid of claim 35, wherein the Kozak-ribosomal binding sequence is located from positions -9 to +4 in the transcriptional unit[[.]], and consists of the sequence GCCGCCGCCATGG, GCCGCCGCCATGC, or GCCGCCGCCATGT.
 - 70. 86. (canceled)